PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT CARL OPPEDHL OPPEDAHL & LARSON LLP 256 DILLON RIDGE ROAD WRITTEN OPINION OF THE P O BOX 5068 INTERNATIONAL SEARCHING AUTHORITY DILLON, CO 80435-5068 (PCT Rule 43bis.1) Date of mailing 4 NOV 2005 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below HRCM.P005WO International application No. International filing date (day/month/year) Priority date (day/month/year) 06 April 2005 (06.04.2005) PCT/IB05/51132 06 April 2004 (06.04.2004) International Patent Classification (IPC) or both national classification and IPC IPC(7): F25D 13/06, 17/02, 3/02, 5/00; F25B 19/00, 15/00, 5/00; F25C 1/18, 1/00; B05B 15/00 and US Cl.: 62/63, 64, 69, 100, 107, 169, 304, 312, 314, 425; 239/434.5 Applicant CRAIG, H. RANDALL 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/ US Date of completion of this opinion Authorized officer Mail Stop PCT, Attn: ISA/US Melba Bumgarner 16 October 2005 (16.10.2005) Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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Form PCT/ISA/237 (cover sheet) (April 2005)

Facsimile No. (571) 273-3201

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IB05/51132

Box No	o. I Basis of this opinion			
1. With regard to the language, this opinion has been established on the basis of:				
\boxtimes	the international application in the language in which it was filed			
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).			
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a.	type of material			
	a sequence listing			
	table(s) related to the sequence listing			
b.	format of material			
	on paper			
	in electronic form			
c.	time of filing/furnishing			
	contained in the international application as filed.			
	filed together with the international application in electronic form.			
	furnished subsequently to this Authority for the purposes of search.			
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4. Additional comments:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB05/51132

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	1-53	YES	
		NONE	NO	
Inventive step (IS)		1-53		
	Claims	NONE	NO	
Industrial applicability (IA)	Claims	1-53	YES	
, (=,		NONE	NO	
2. Citations and explanations:				
Claims 1-53 meet the criteria set out in PCT Article 3 traveling at a first rate of stream and having a first wi droplet gas stream to a second width, the second widt rate than the first rate of speed; directing the droplet g partially solidified; laminar flow vane section, the lar section and a second end connected to an acceleration vane section and a second end connected to a freezing droplets, at least three radial gas collectors, the collect Claims 1-53 meet the criteria set out in PCT Article 3 be made or used in industry.	dth; acceleration the being narrow gas stream traveninar flow van a section, the ag section, the fectors being paragraphs.	ng the droplet gas stream to a sec- wer than the first width and the se- veling at the second rate of speed of the section having a first end conne- acceleration section having a first freezing section comprising a targ- allel with the target, and a cryoger	ond rate of speed by narrowing the cond rate of speed being a higher onto a refrigerant which is at least exted to a gas stream directional end connected to the laminar flow et for the stream of small liquid in container and collector.	